RATENT AND TRADEMARK OFFICE

'APR 0 5 2007

In re Patent Application of

David PARTAIN et al.

Application No.: 09/941,878

Filed: August 29, 2001

For: Bandwidth Broker for Cellular Radio

Access Networks

Group Art Unit: Unassigned

Examiner: Unassigned

TRANSMITTAL LETTER FOR MISSING PARTS OF APPLICATION

BOX: MISSING PART

Assistant Commissioner for Patents

Washington, D.C. 20231

Sir:

In complete response to the Notice to File Missing Parts of Application Under 37 C.F.R. § 1.53(b) which was mailed on October 10, 2001, but only received by fax on March 22, 2002; enclosed please find:

- [X] a Combined Declaration and Power of Attorney signed by the inventor(s) and the surcharge of [] \$65.00 (205) [X] \$130.00 (105) as set forth in 37 C.F.R. § 1.16(e);
- [X] a Request for Refund;
- [X] a Petition for Extension of Time;
- [X] please charge \$ 130.00 to Deposit Account No. 02-4800 for the fee due for missing parts.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

P.O. Box 1404 Alexandria, Virginia 22313-1404 (919) 941-9240

Date: MARCH 26,2002

Registration No. 49,909 tily that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner of Patents and Trademarks, Washington, D.C. 20231, on

J HARRI (Typod or printed name of person signing the certificate)

(Signature of p

(Date of Signature)







United States Patent and Trademark Office

COMMISSIONER FOR PATENTS UNITED STATES PATENT AND TRADEMARK OFFICE Washington, D.C. 20231 www.uspto.gov

FILING/RECEIPT DATE APPLICATION NUMBER

09/941,878

08/29/2001

FIRST NAMED APPLICANT Davi Partain

P

ATTORNEY DOCKET NUMBER

040020-290

APR 0 5 2002

CONFIRMATION NO. 7838

FORMALITIES LETTER

OC000000006828224

Ronald L. Grudziecki BURNS, DOANE, SWECKER & MATHIS, L.L.P. P.O. Box 1404 Alexandria, VA 22313-1404

Date Mailed: 10/02/2001

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given TWO MONTHS from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is unsigned.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- The balance due by applicant is \$ 130.

A copy of this notice MUST be returned with the reply.

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 3 - OFFICE COPY

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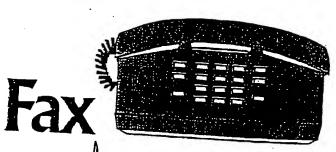
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15. Department of Commerce

Patent and Trademark Office

Office of Initial Patent Examination (OIPE)
Customer Service

(703) 308-1202 or 1203 Fax (703) 308-7751





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Fax:/	919-941-15/5	Pages:
Phone:	919-941-8833	Date: 3-22-02
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Comments:



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office ASSITIANT SCORTARY AND COMMISSIONER OF PAIGNES AND TRACEMARKS
Washington, O.C. 20231

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APR 0 5 2002

Attorney's Docket No. 040020-290

Group Art Unit: Unassigned

Examiner: Unassigned

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

David PARTAIN et al.

Application No.: 09/941,878

Filed: August 29, 2001

For: Bandwidth Broker for Cellular Radio Access

Networks

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REQUEST FOR REFUND

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Applicants respectfully request a refund of any fee for extensions of time related to filing of Missing Parts for this application. Applicants respectfully submit that a search of the file jacket and docket record has revealed that such notification of Missing Parts Requirement was never received. A copy of the docket record where the Missing Parts Requirement notification would have been entered, had it been received and docketed, is attached. Had such notification been received, the "Action" column would have an entry indicating "Missing Parts". A docket prompt for a status check for missing parts, shown as "SC-Missing Parts" in the "Action" column in the docket record, resulted in a telephone inquiry to the Office of Initial Patent Examination to determine the status of the application. As a result of the inquiry, the Office, on March 22, 2002, provided a faxed copy of the Notice, to which Applicants now respond.

Applicants respectfully request a refund to Deposit Account No. 02-4800 in the amount of \$1,440.00 for the extensions of time required to file Missing Parts.

While no fee is believed to be necessary, the Commissioner is authorized to charge any appropriate fee that may be required by this paper to Deposit Account No. 02-4800.

If there are any questions, the undersigned attorney may be contacted at (919) 941-8838. Your prompt and favorable attention to this matter is respectfully requested.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Post Office Box 1404 Alexandria, Virginia 22313-1404 (919) 941-9240

Date: MARCU Zb,2002

Michael J. Crowley Registration No. 49,009

(5/95)

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CLIENT	040020 Eric	csson (BR) RM	ИOG		1	CREF		SE	יז	/PE		
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Walle	ntin, Pontus									ATT		
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NOTES

ABSTRACT

An architecture for resource management of an IP-based cellular radio access network is presented. A measurement-based admission control scheme is used to monitor the load for each path in the network and QoS (quality of service) class and resource decisions are made based upon that information. A bandwidth broker is introduced in the cellular radio access network (RAN). The bandwidth broker processes the on-demand admission requests for IP resources by using the results of load control measurements. Since the requests can be processed very quickly using a simple table look-up, response times are fast, and the architecture is thus suitable for the cellular environment.